

What is claimed is:

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1. A synthetic turf comprising:
a sub-surface layer;
a porous aggregate layer on said sub-surface layer;
a geotextile membrane on said aggregate layer;
a substantially non-compactable layer comprising sand and
resilient material on said geotextile membrane;
a pile fabric on said substantially non-compactable layer,
said pile fabric comprising a plurality of pile elements secured to
a backing; and
an infill for said pile fabric, said infill consisting
essentially of resilient particles.

2. The synthetic turf of claim 1, wherein said resilient
material in said substantially non-compactable is rubber embedded
in said sand.

2x. The synthetic turf of claim 1, wherein said resilient
particles comprise styrene-butadiene.

3x. The synthetic turf of claim *2x*, wherein said resilient
particles further comprise high density rubber.

4x. The synthetic turf of claim 1, wherein said pile elements
comprise polyethylene.

5. The synthetic turf of claim 1, wherein said backing
comprises a non-woven material.

6x. The synthetic turf of claim 6, wherein said non-woven
material is secured to a woven material having a layer of felt
thereon facing said non-woven material.

7. The synthetic turf of claim 1, further comprising drainage means below said pile fabric for directing water away from said turf.

8. The synthetic turf of claim 7, wherein said drainage means comprises a plurality of perforated interconnected pipes.

9 10. The synthetic turf of claim 8, wherein said drainage means further comprises a plurality of holes in said backing.

11. A method of forming a synthetic turf on a sub-surface base, comprising:

forming a porous aggregate layer on said sub-surface base;

providing a geotextile membrane on said aggregate layer;

forming a substantially non-compactable layer comprising sand and resilient material on said geotextile membrane;

providing a pile fabric on said substantially non-compactable layer, said pile fabric comprising a plurality of pile elements secured to a backing and an infill consisting essentially of resilient particles.

16 12. The method of claim 11, further comprising providing water drainage by burying a plurality of perforated interconnected pipes below said pile fabric.

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